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DEC 2001

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Coelho, P., et al.
FILED: June 4, 1999
FOR: Autologous Thrombin

To: Commissioner of Patents and Trademarks
Washington, DC 20231

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
BEFORE MAILING OF FIRST OFFICE ACTION UNDER 37 CFR 1.97(b)**

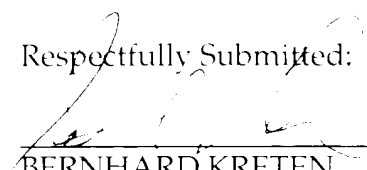
The references listed on the appended PTO-1449 form reflect the state of the art of which applicant is currently aware. The references are included to fulfill the applicant's duty to disclose prior art. It is stipulated, however, that none of these references teach singly, nor render obvious when combined, the nexus of this invention as disclosed and as particularly claimed.

**IDENTIFICATION OF TIME OF FILING THE
ACCOMPANYING INFORMATION DISCLOSURE STATEMENT**

This information disclosure statement submitted herewith is being filed before the mailing date of a first Office Action on the merits.

Dated: December 4, 2001

Respectfully Submitted:


BERNHARD KRETEN
Applicant's Attorney
Telephone (916) 921-6181
Registration No.: 27,037

10/06/87

PTO SB 08A 6-95

Approved for use through 07/31/96 OMB 0651-0031

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1449A PTO		U.S. Department of Commerce		Complete if Known				
Rev. 10-96		Patent and Trademark Office						
LIST OF PRIOR ART CITED BY APPLICANT (use as many sheets as necessary)								
						Application Number		
						Filing Date		
				First Named Inventor		Coelho, et al.		
Group Art Unit								
Examiner Name								
Sheet	1	of	8	Attorney Docket Number 31120-pa				

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)			
	1	713,017		Pumphrey	11-04-1902	
	2	1,614,532		Mobley	01-18-1927	
	3	2,533,004		Ferry, et al.	12-05-1950	
	4	2,747,936		Wahlin	05-29-1956	
	5	3,179,107		Clark	04-20-1965	
	6	3,223,083		Cobey	12-14-1965	
	7	3,236,457		Kennedy, et al.	02-22-1966	
	8	3,269,389		Meurer, et al.	08-30-1966	
	9	3,416,737		Venus, Jr.	12-17-1968	
	10	3,467,096		Horn	09-16-1969	
	11	3,828,980		Creighton, et al.	08-13-1974	
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	13	3,945,574		Polnauer, deceased, et al.	03-23-1976	
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	19	4,359,049		Redl, et al.	11-16-1982	
	20	4,362,567		Schwarz, et al.	12-07-1982	

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		Office	Number	Kind Code (if known)		
	84	DE	25,913		Zdaril	02-12-1884
	85	CH	259,254		Szent-Györgyi, et al.	06-01-1949
	86	WIPO	WO 86/01814		Trustees Columbia Univ.	03-27-1986
	87	WIPO	WO 88/02259		Weis-Fogh	04-07-1988
	88	WIPO	WO 88/03151		Univ. of Texas System	05-05-1988

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		Number	Kind Code if known			
	21	4,363,319		Altshuler	12-14-1982	
	22	4,374,830		Schneider	02-22-1983	
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	40	4,874,368		Miller, et al.	10-17-1989	

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		Office	Number	Kind Code if known		
	89	SU	1,527,261	A1		12-07-1989
	90	WIPO	WO 91/09641		Cryolife, Inc.	07-11-1991
	91	EP	0 443 724	A1	Baxter International, Inc.	08-28-1991
	92	EP	0 505 604	A1	Warner-Lambert Co.	09-30-1992
	93	EP	0 534 178	A2	Octapharma AG	03-31-1993

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		Number	Kind Code (if known)				
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	59	5,232,024			Williams	08-03-1993	
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	94	WIPO	WO 93/19805		Cryolife, Inc.	10-14-1993	
	95	WIPO	WO 94/00566		Cederholm-Williams, et al.	01-06-1994	
	96	EP	0 592 242 A1		E.R. Squibb & Sons	04-13-1994	
	97	WIPO	WO 96/17871		Plasmaseal Corporation	06-13-1996	
	98	WIPO	WO 96/31245		Hamilton Civic Hospitals	10-10-1996	

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Sheet	4	of	8	Attorney Docket Number	31120-pa

U.S. PATENT DOCUMENTS

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		Number	Kind Code (if known)			
	61	5,290,552		Sierra, et al.	03-01-1994	
	62	5,304,372		Michalski, et al.	04-19-1994	
	63	5,328,462		Fischer	07-12-1994	
	64	5,368,563		Lonneman, et al.	11-29-1994	
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	66	5,405,607		Epstein	04-11-1995	
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	70	5,474,540		Miller, et al.	12-12-1995	
	71	5,474,770		Broly, et al.	12-12-1995	
	72	5,480,378		Weis-Fogh, et al.	01-02-1996	
	73	5,506,127		Proba, et al.	04-09-1996	
	74	5,510,102		Cochrum	04-23-1996	
	75	5,575,779		Barry	11-19-1996	
	76	5,578,459		Gordon, et al.	11-26-1996	
	77	5,585,007		Antanavich, et al.	12-17-1996	
	78	5,605,887		Pines, et al.	02-25-1997	
	79	5,614,204		Cochrum	03-25-1997	
	80	5,631,019		Marx	05-20-1997	

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		Office	Number			
	99	WIPO	WO 99/45938	Sierra, David H.	09-16-1999	

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Sheet	5	of	8	Attorney Docket Number	31120-pa

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Sheet	6	of	8	Attorney Docket Number	31120-pa

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date, page(s); volume-issue number(s); publisher, country, where published, source	1*
	100	Fenton, J., et al., "Human Thrombins", Chemistry & Biology of Thrombin, pp. 43-70.	
	101	Rosenberg, R.D., et al., "Bovine Thrombin: Constant Specific Activity Products From Single Animals", Fed. Proc., p. 321, Abstract No. 361.	
	102	Quick, A.J., et al., "Production Of Thrombin From Precipitate Obtained By Acidification Of Diluted Plasma", pp. 114-118.	
	103	Eagle, H., "Studies On Blood Coagulation", pp. 531-545, 1934.	
	104	Mann, K.G., et al., "The Molecular Weights Of Bovine Thrombin And Its Primary Autolysis Products", pp. 6555-6557, 1969.	
	105	Mann, K.G., et al., "Multiple Active Forms Of Thrombin", The Journal of Biological Chemistry, Vol. 246(19), pp. 5994-6001, 1971.	
	106	Martin, M., et al., "Thrombolysis In Patients With Chronic Arterial Occlusions", Thrombolytic Therapy, Vol. 47, pp. 235-241, 1971.	
	107	Fenton, J., et al., "Large-Scale Preparation And Preliminary Characterizations Of Human Thrombin", Biochimica et Biophysica Acta. Vol. 229, pp. 26-32, 1971.	
	108	Andrianova, et al., "An Accessible Method Of Simultaneous Production Of Fibrinogen And Thrombin From Blood", pp. 648-650, 1975. (Plus English translation).	
	109	Georgi, M., et al., "Occlusion Of The Renal Artery By Intra-Arterial Injection Of Thrombin In A Case Of Inoperable Renal Tumor", Deutsche Medizinische Wochenschrift, Vol. 100(47), pp. 2428-2429, 1975. (Plus English translation).	
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Examiner		Date	
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	112	Fenton, J., et al., "Human Thrombins: Production, Evaluation, And Properties Of α -Thrombin", The Journal of Biological Chemistry, Vol. 252(11), pp. 3587-3598, 1977.	
	113	Nordenman, B., et al., "Purification Of Thrombin By Affinity Chromatography On Immobilized Heparin", Thrombosis Research, Vol. 11, pp. 799-808, 1977.	
	114	Nowotny, R., et al., "Mechanical Properties Of Fibrinogen-Adhesive Material", Biomaterials 1980, Vol. 3, pp. 677-682, 1982.	
	115	Kotelba-Witkowska, B., et al., "Cryopreservation Of Platelet Concentrates Using Glycerol-Glucose", Transfusion, Vol. 22(2), pp. 121-124, 1982.	
	116	Redl, H., et al., "Fibrin Sealant-Antibiotic Mixture -- Stability And Elution Behavior", Fibrinkleber Orthop. Traumatol. Orthop. Symp., Vol. 4, pp. 178-181, 1982. (Plus English translation).	
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	118	Gestring, G., et al., "Autologous Fibrinogen For Tissue-Adhesion, Hemostasis And Embolization", Vascular Surgery, Vol. 17, pp. 294-304, 1983.	
	119	Wolf, G., "The Concentrated Autologous Tissue Glue", Archives of Oto-Rhino-Laryngology, Vol. 237, pp. 279-283, 1983.	
	120	Tsvetkov, T.S., et al., "A Method For Preparation Of Dry Thrombin For Topical Application", Cryobiology, Vol. 21(6), pp. 661-663, 1984.	
	121	Yu, X.J., et al., "Affinity Chromatography Of Thrombin On Modified Polystyrene Resins", Journal of Chromatography, Vol. 376, pp. 429-435, 1986.	
	122	Fischer, A.M., et al., "Thrombin Purification By One-Step Preparative Affinity Chromatography On Modified Polystyrenes", Journal of Chromatography, Vol. 363(1), pp. 95-100, 1986.	
	123	Harpel, P.C., "Blood Proteolytic Enzyme Inhibitors: Their Role In Modulating Blood Coagulation And Fibrinolytic Enzyme Pathways", pp. 219-234, 1987.	

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	124	Fenton, J.W., "Regulation Of Thrombin Generation And Functions", Seminars in Thrombosis and Hemostasis, Vol. 14(3), pp. 234-240, 1988.	
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